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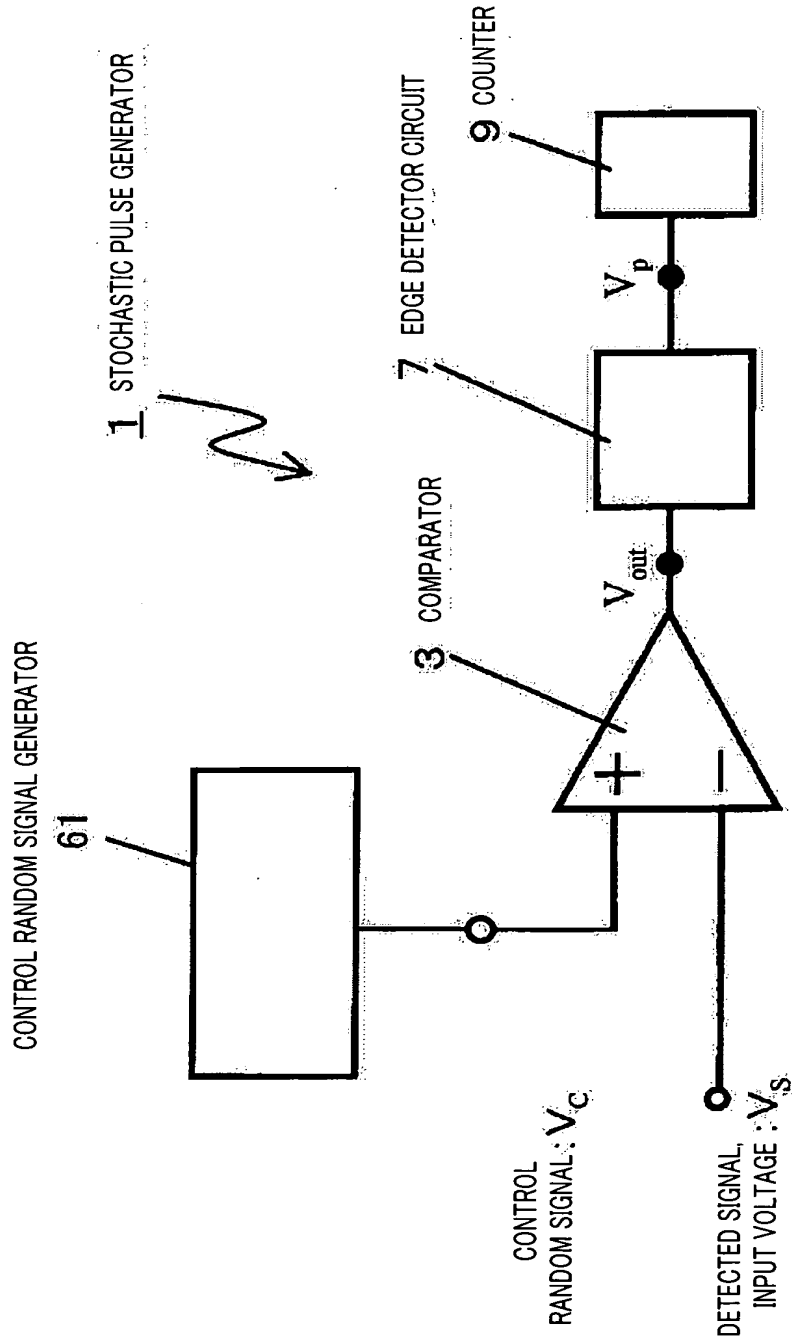


Fig. 1

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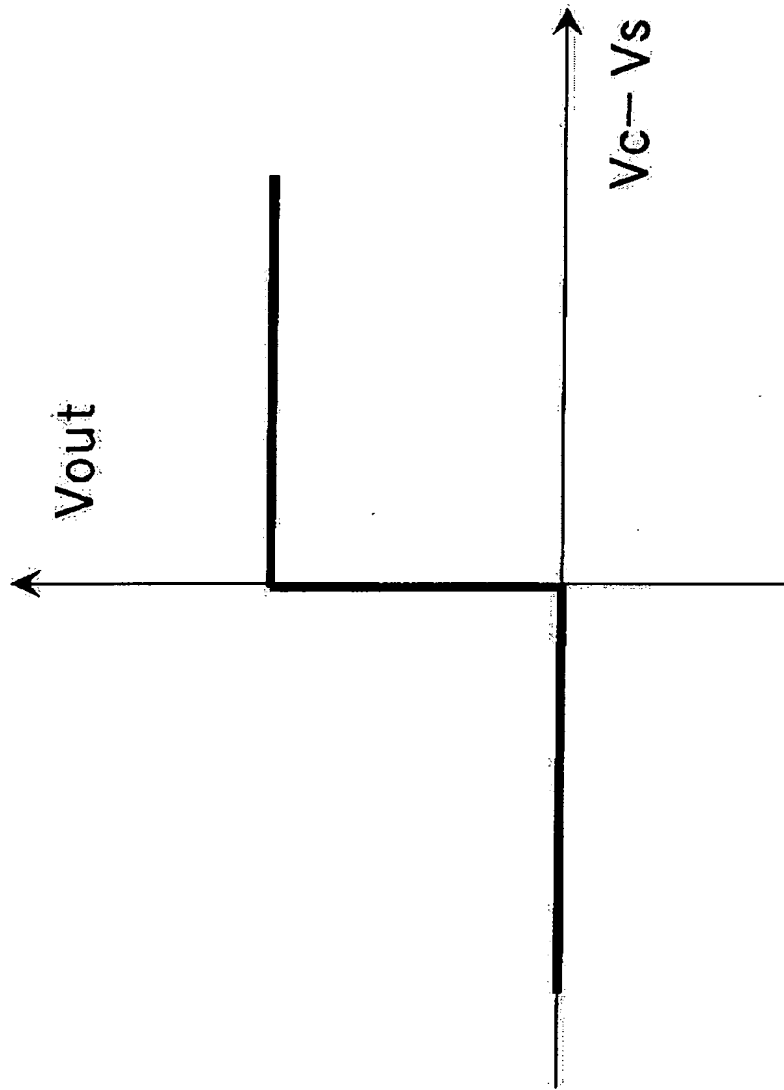


Fig. 2

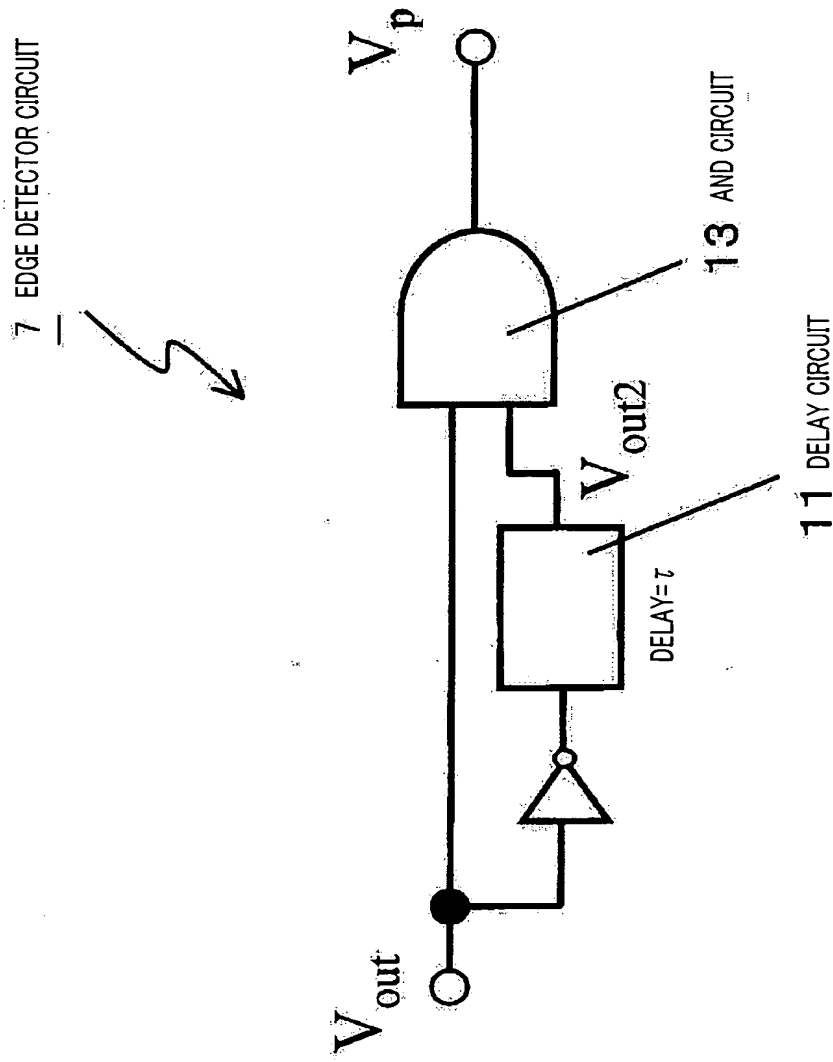


Fig. 3

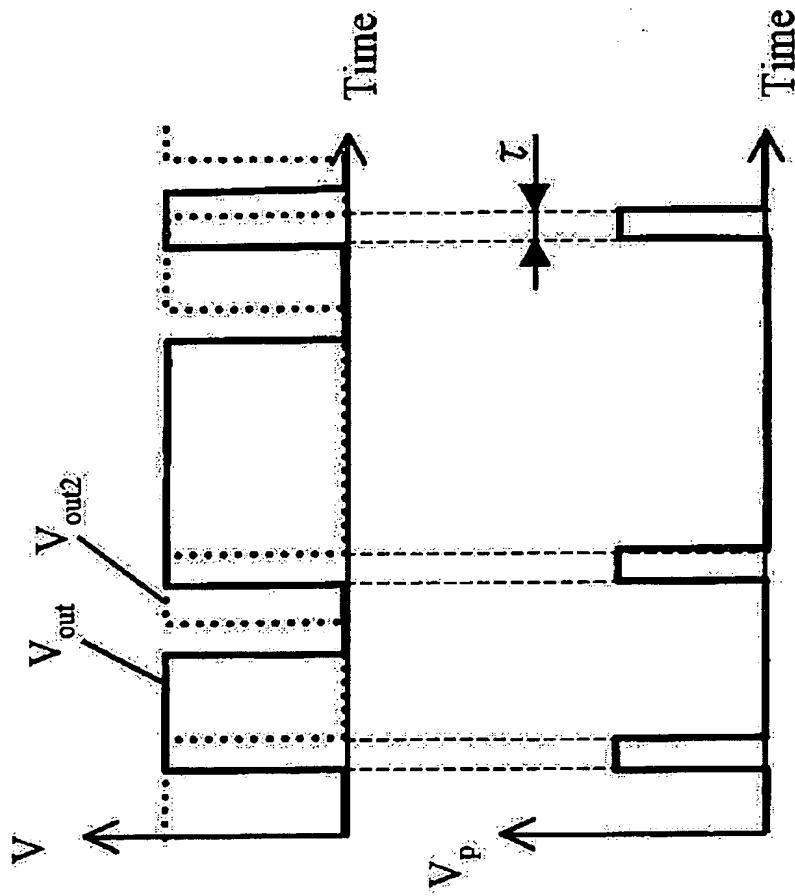


Fig. 4

Fig. 5(a)

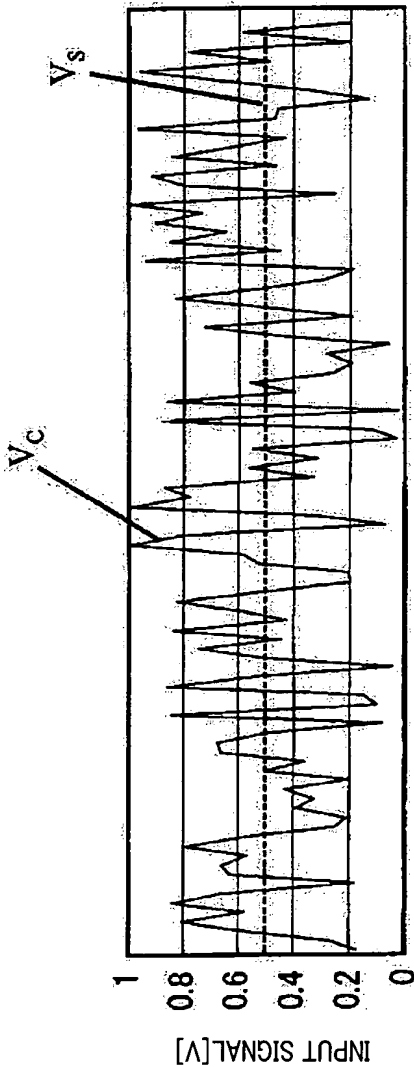
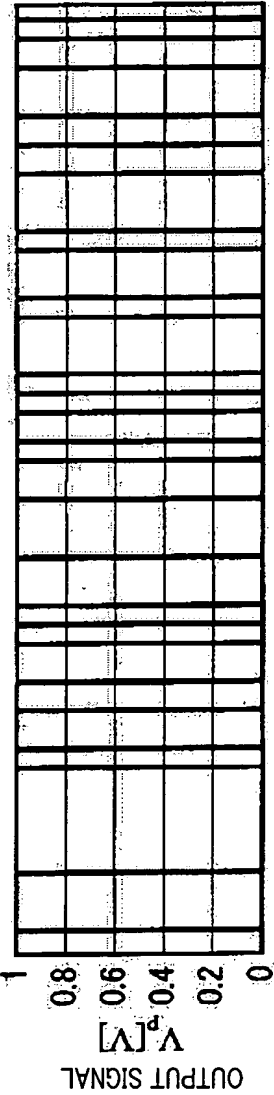


Fig. 5(b)



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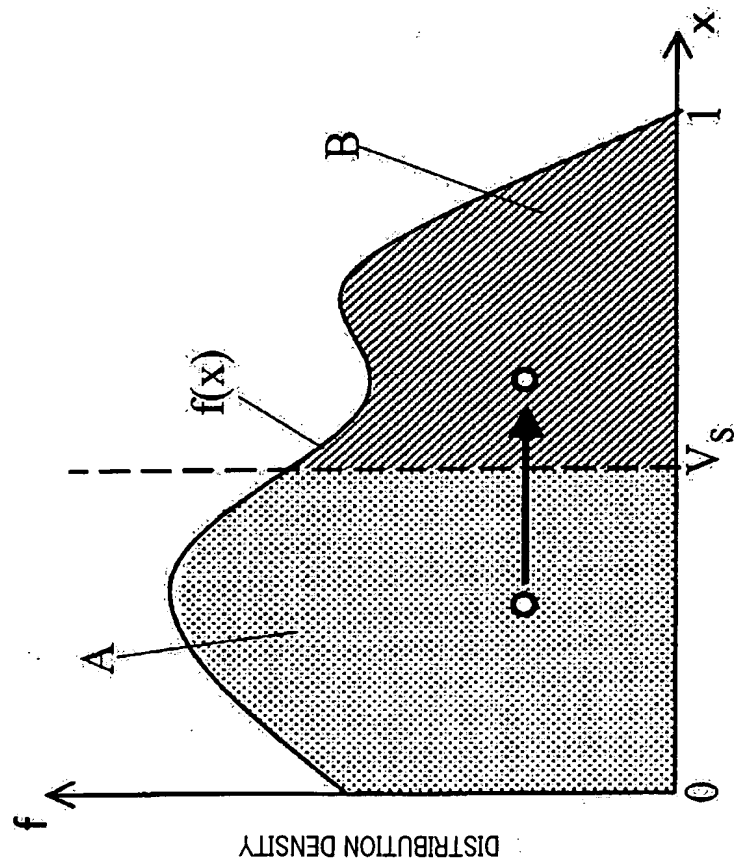


Fig. 6

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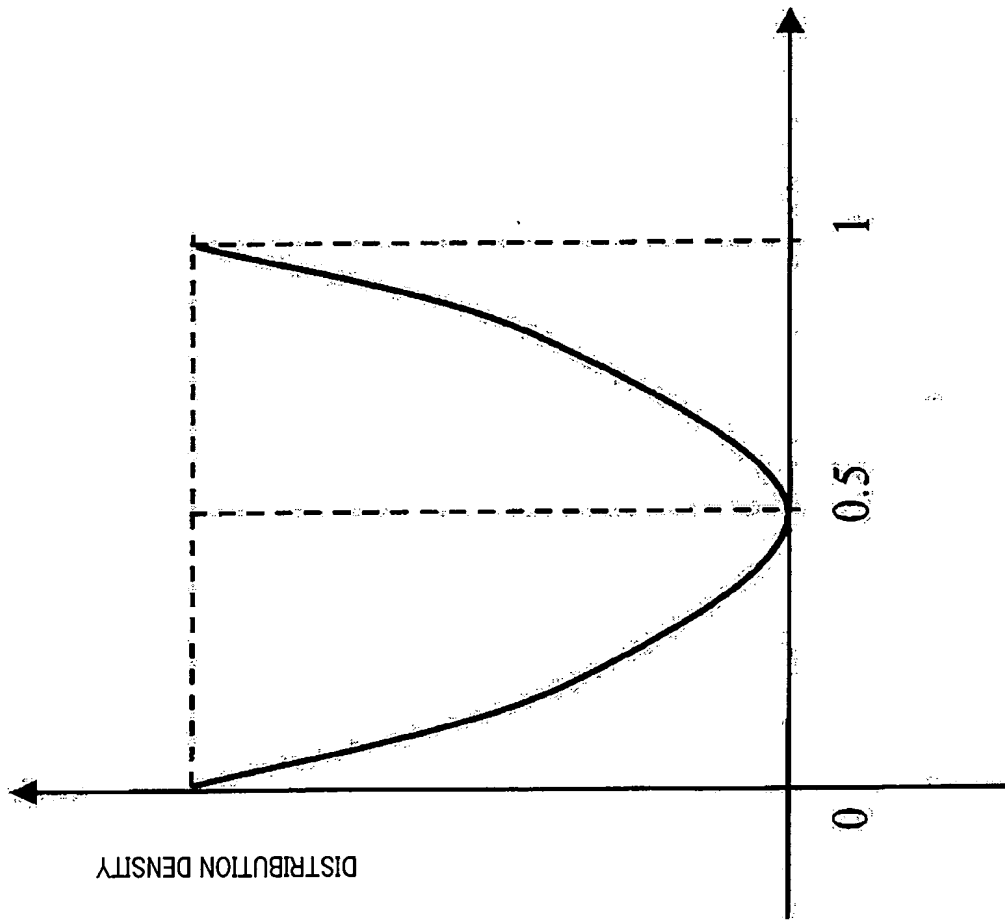


Fig. 7

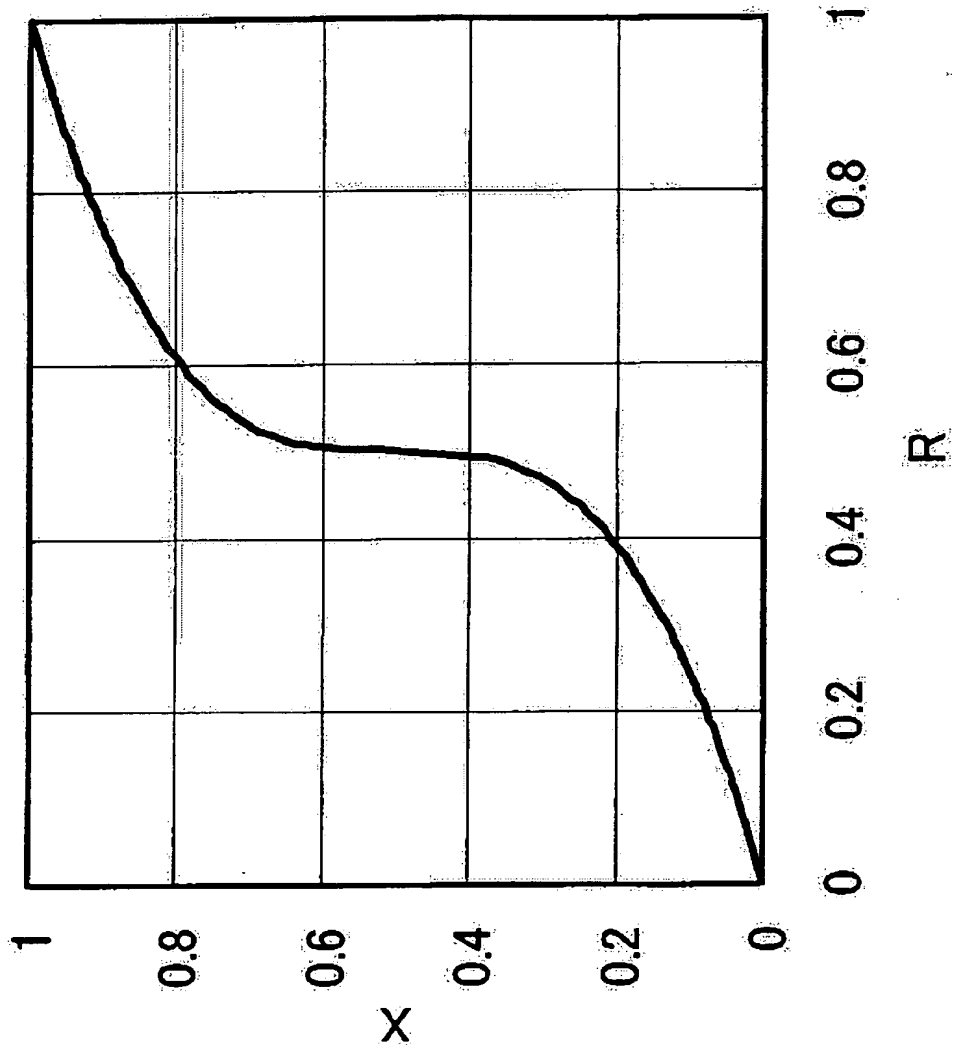
$\frac{8}{36}$ 

Fig. 8

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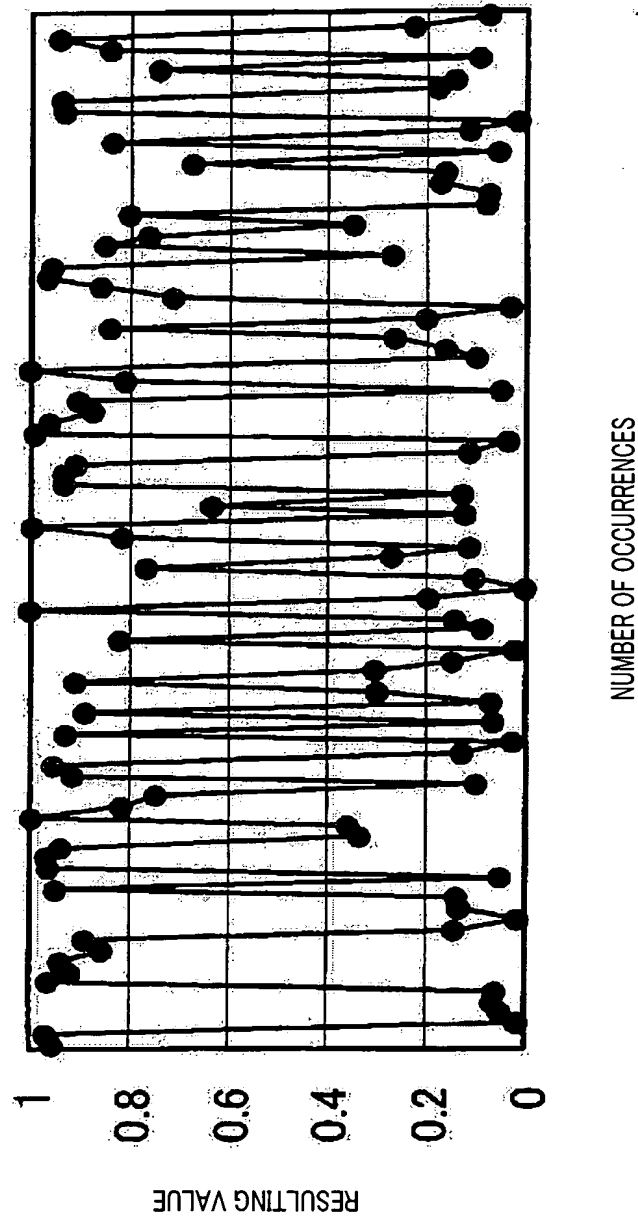


Fig. 9

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Fig. 10(a)

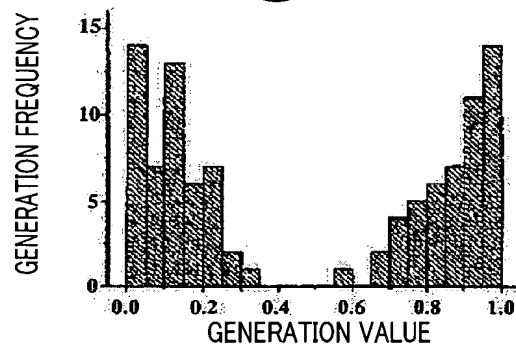


Fig. 10(b)

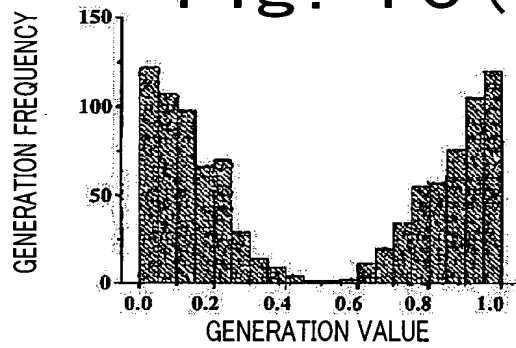
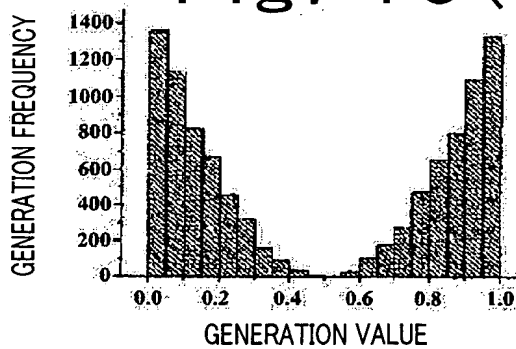
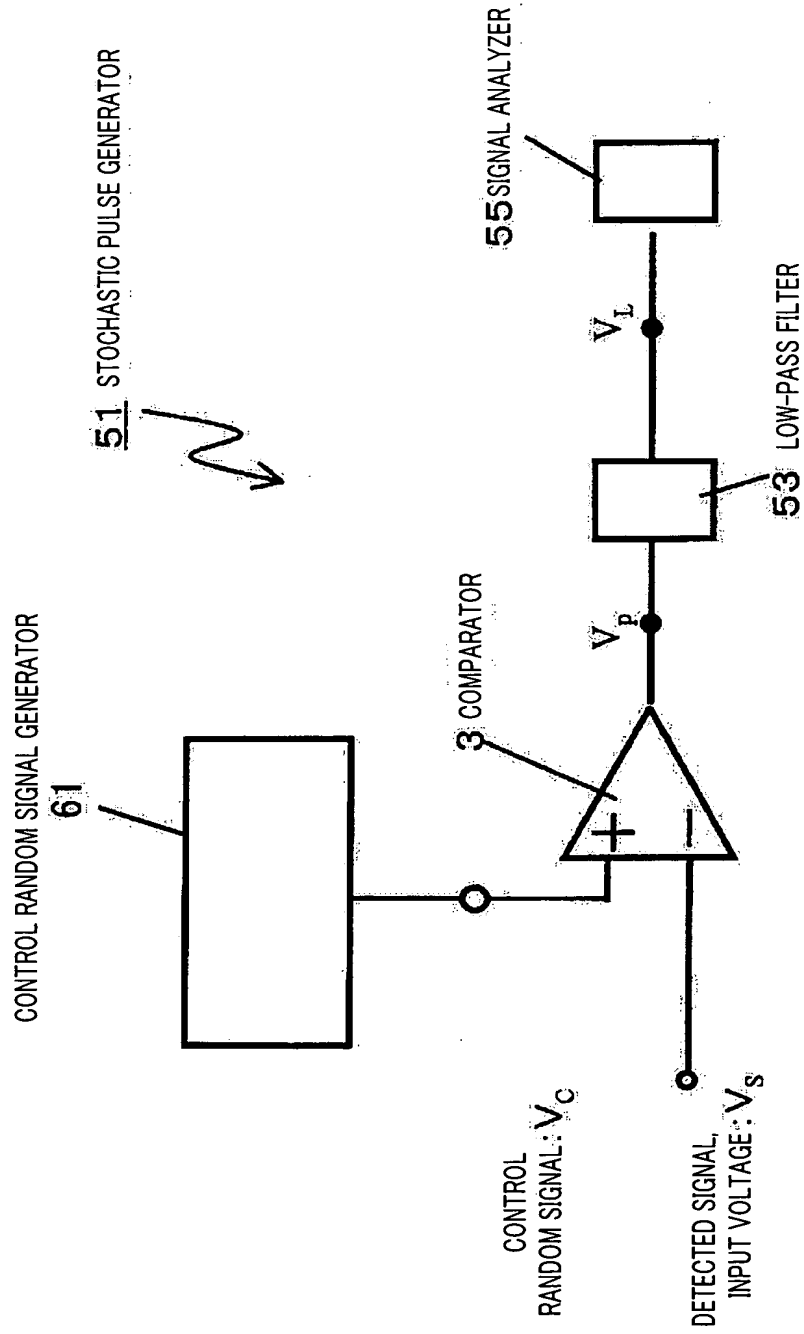


Fig. 10(c)





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Fig. 11

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Fig. 12(a)

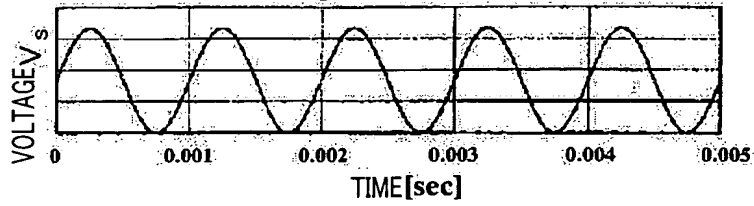


Fig. 12(b)

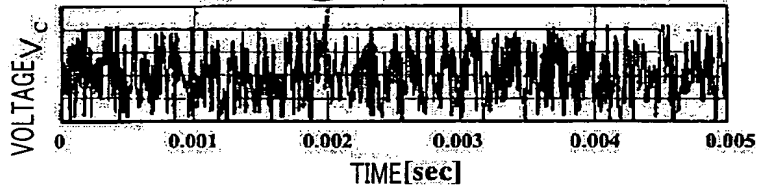


Fig. 12(c)

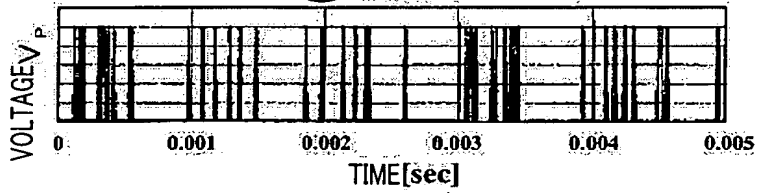


Fig. 12(d)

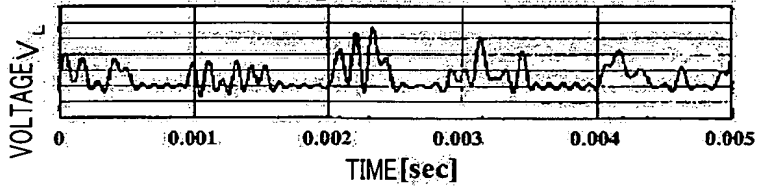
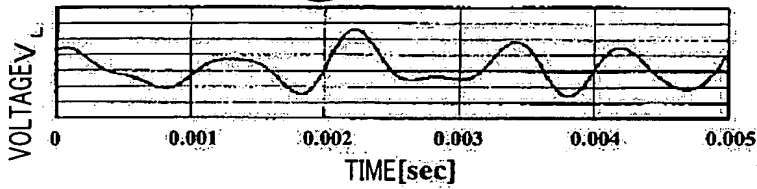


Fig. 12(e)



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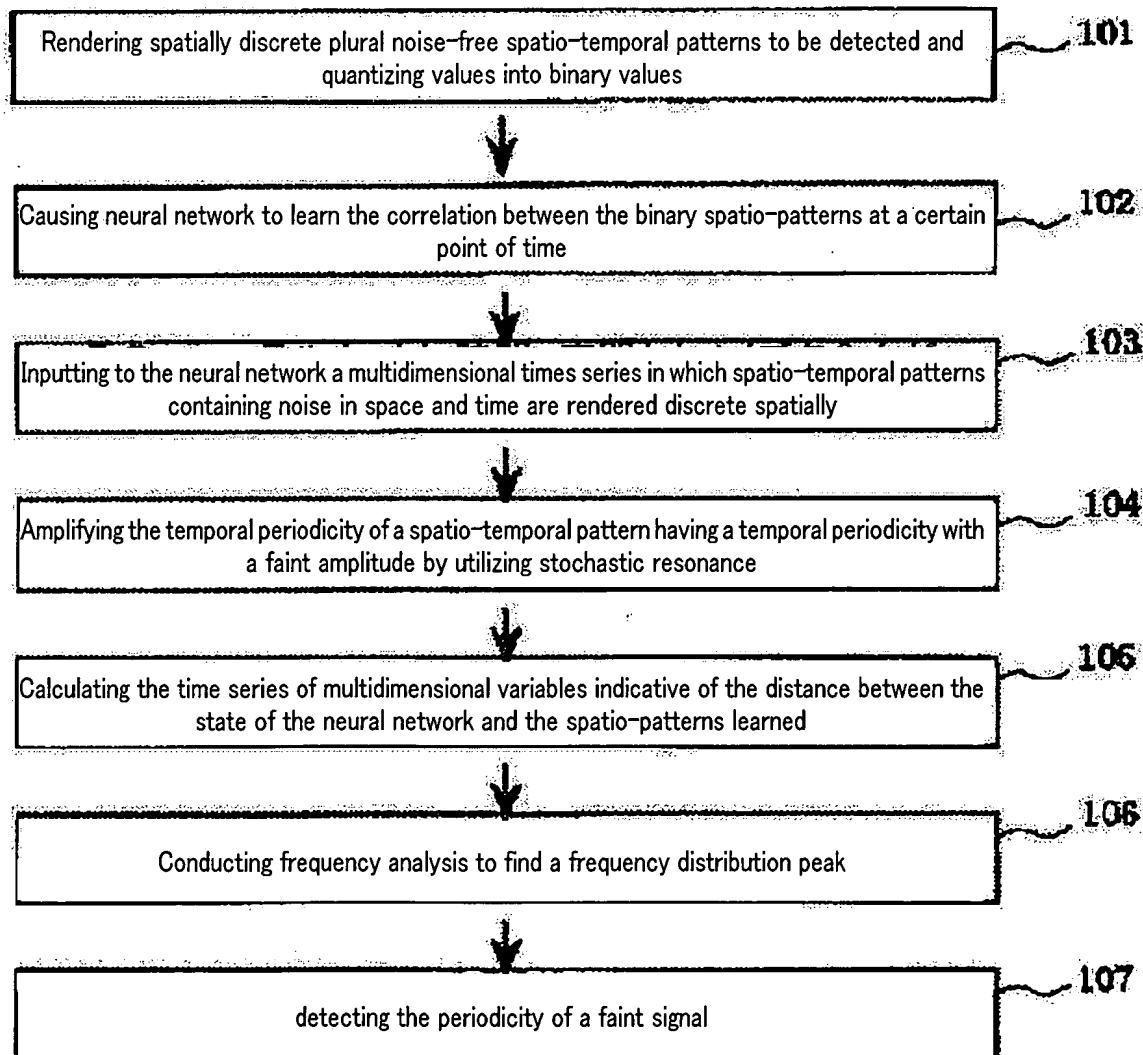


Fig. 13

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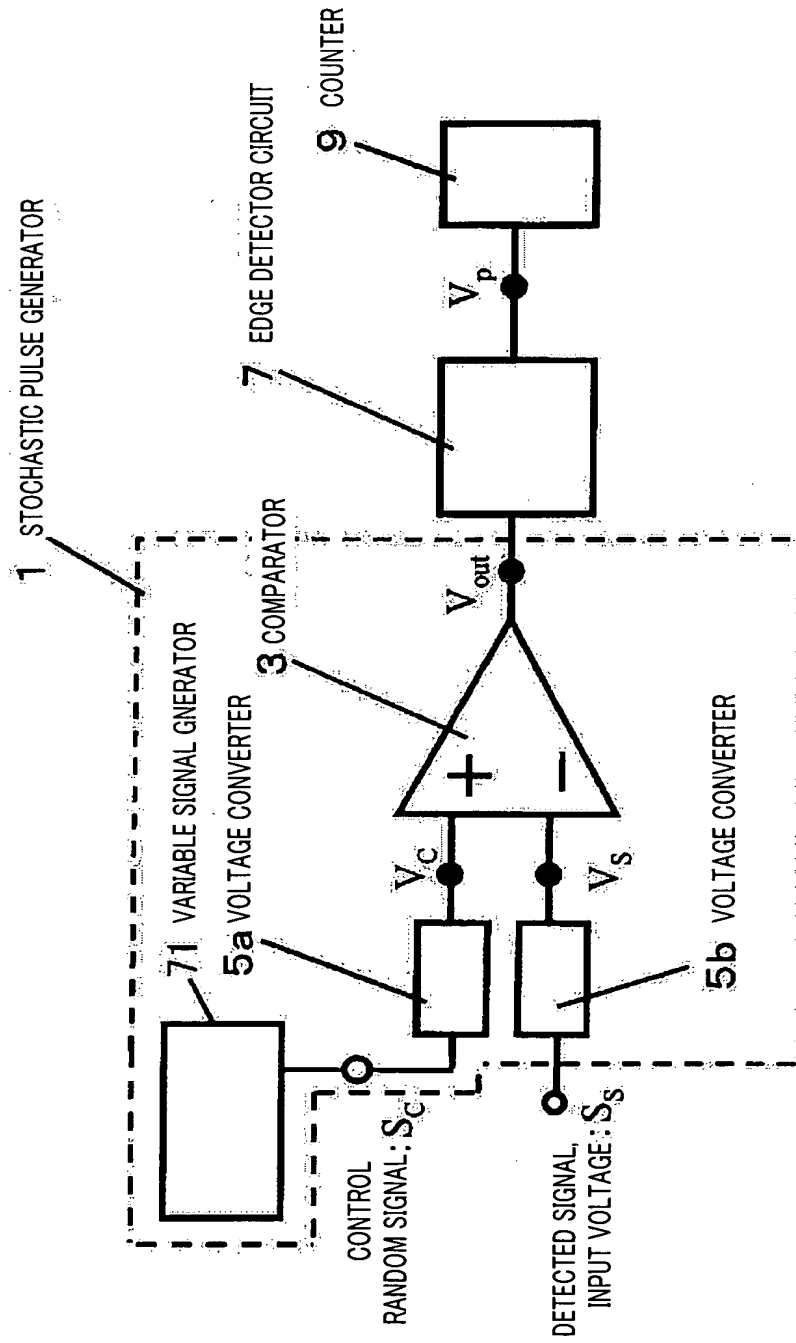


Fig. 14

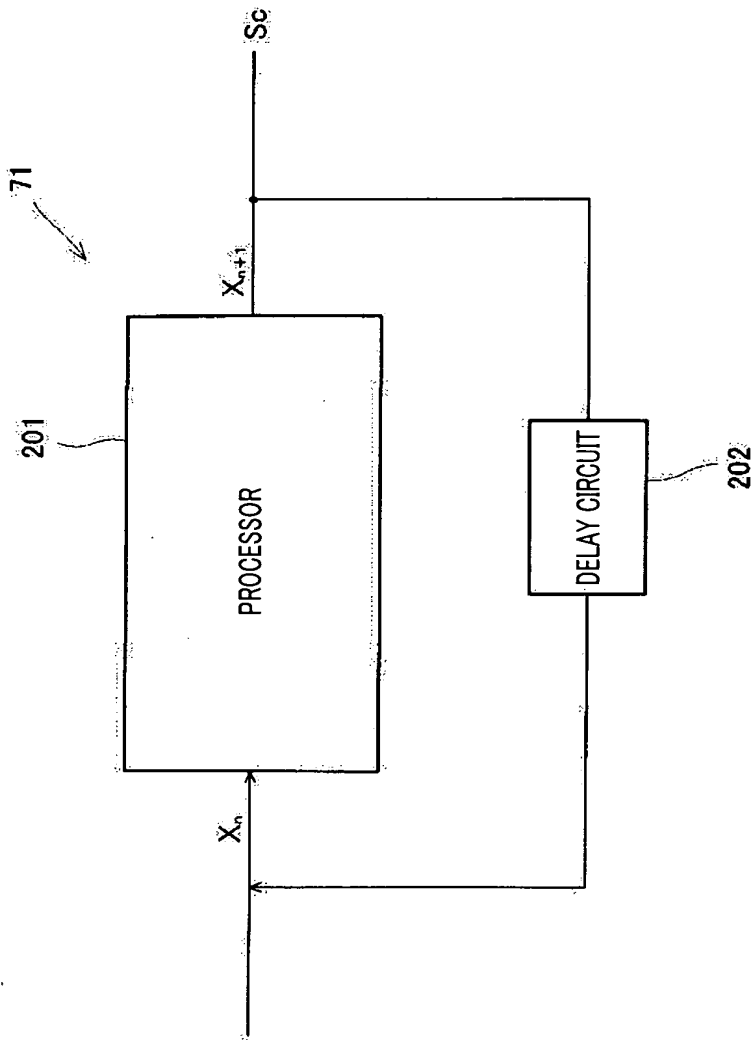


Fig. 15

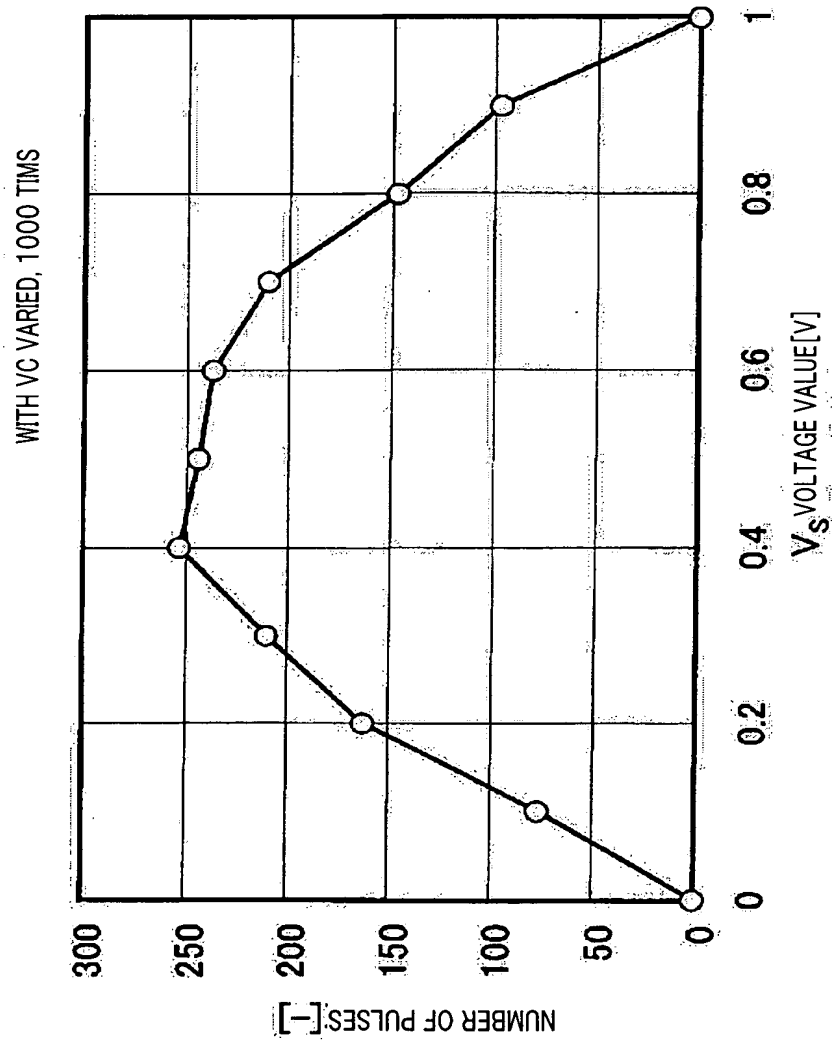


Fig. 16

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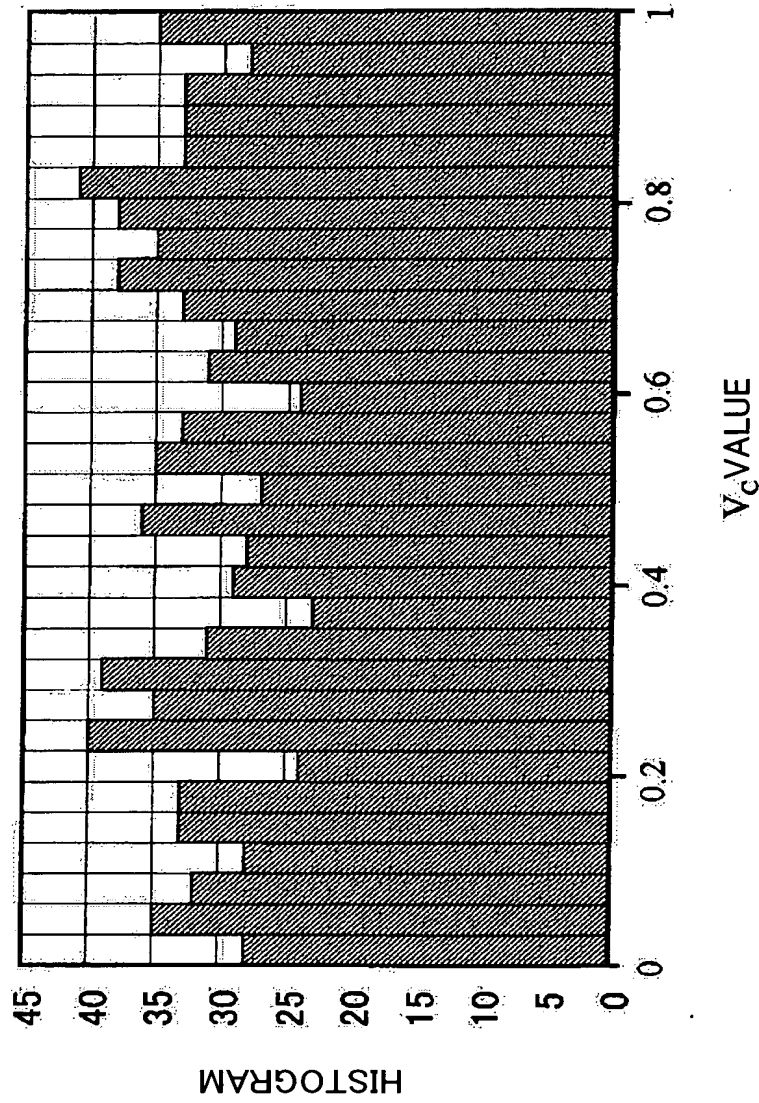


Fig. 17

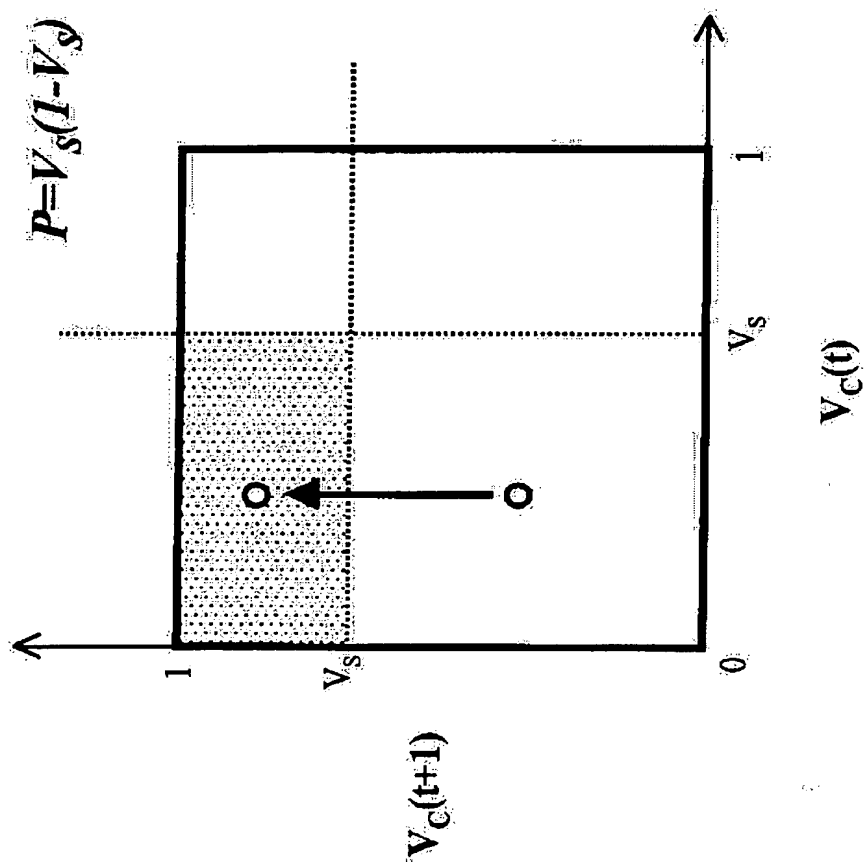
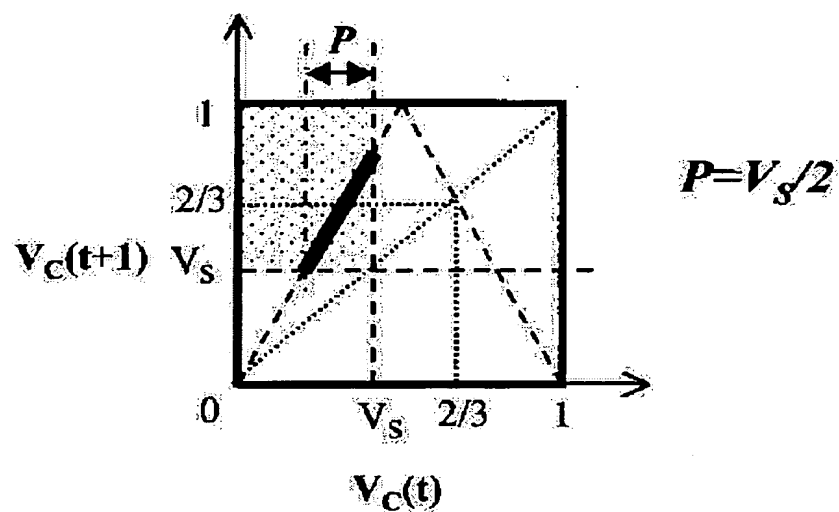
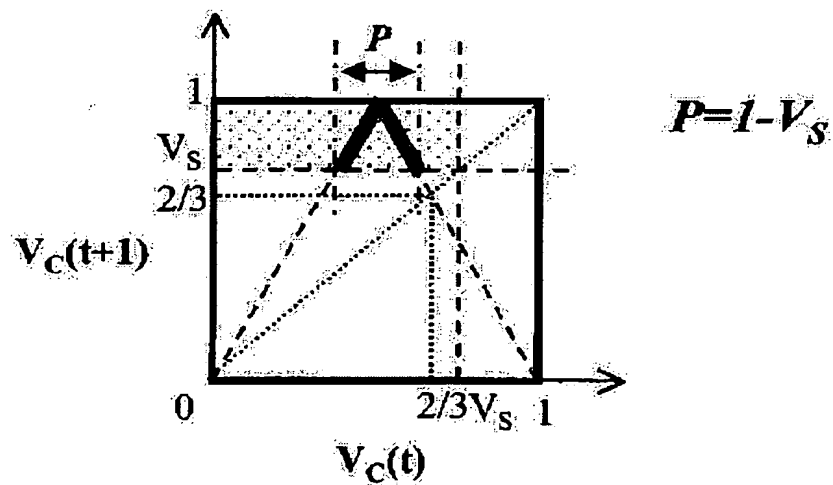


Fig. 18

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Fig. 20 (a) $V_s \leq 2/3$ Fig. 20 (b) $V_s \geq 2/3$ 

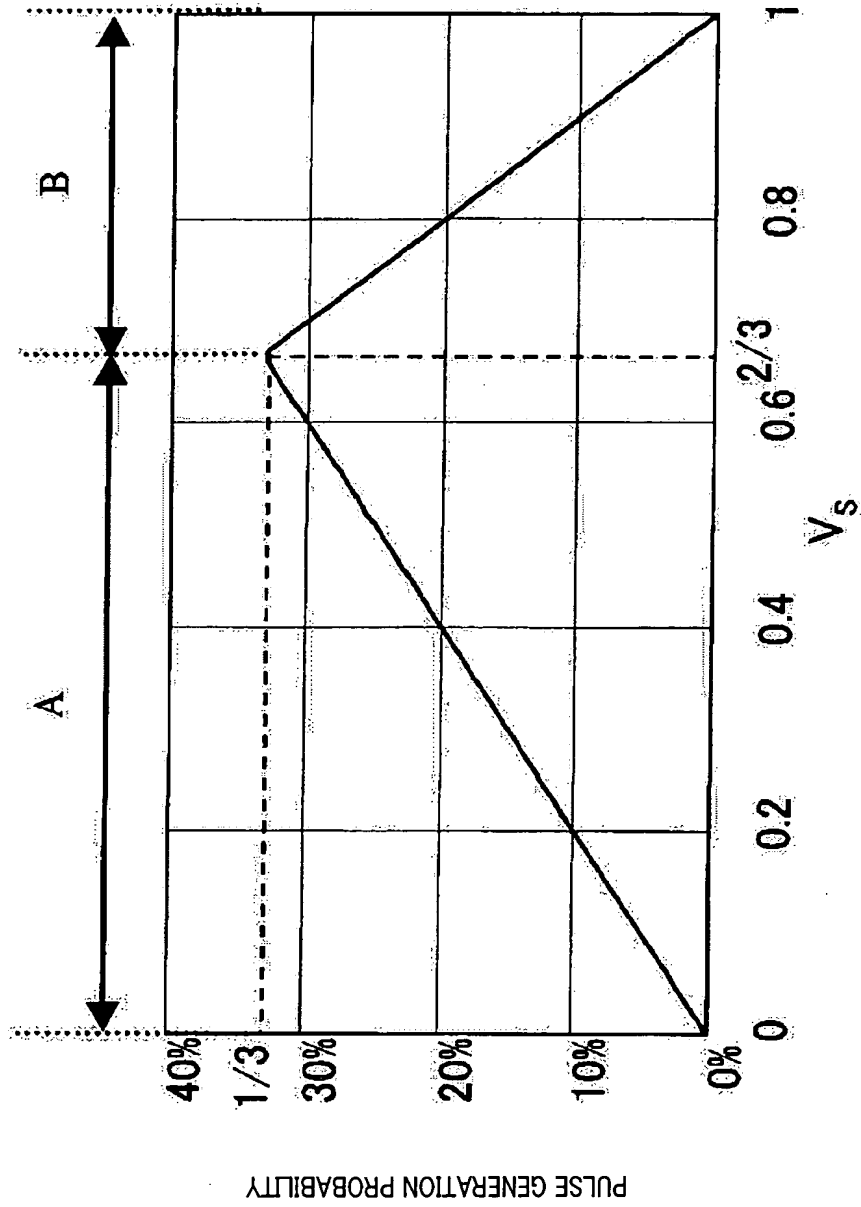


Fig. 21

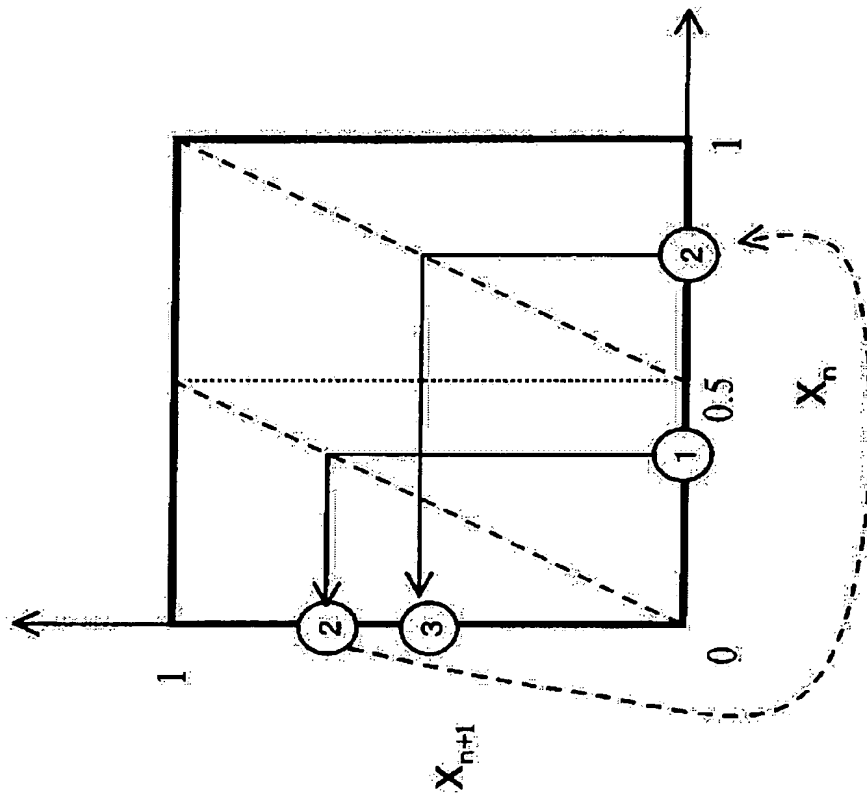
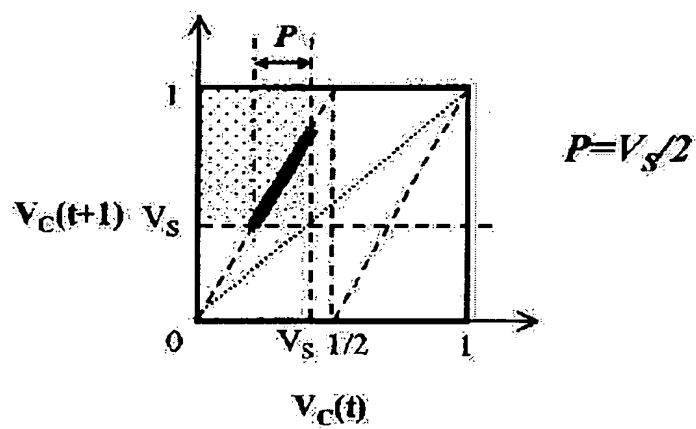
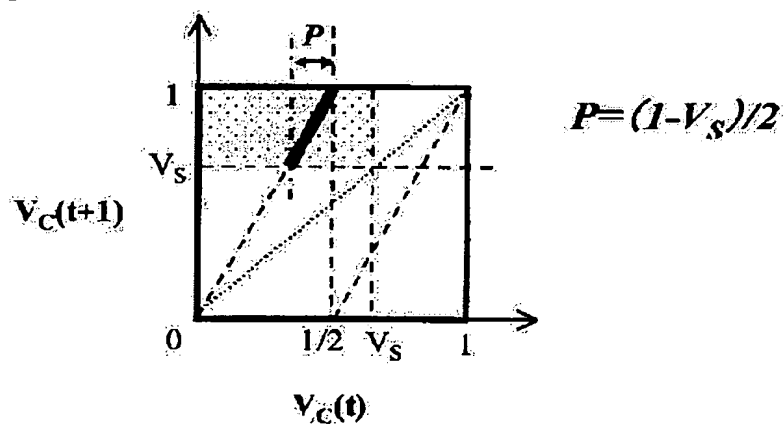


Fig. 22

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Fig. 23 (a) $V_s \leq 1/2$ Fig. 23 (b) $V_s \geq 1/2$ 

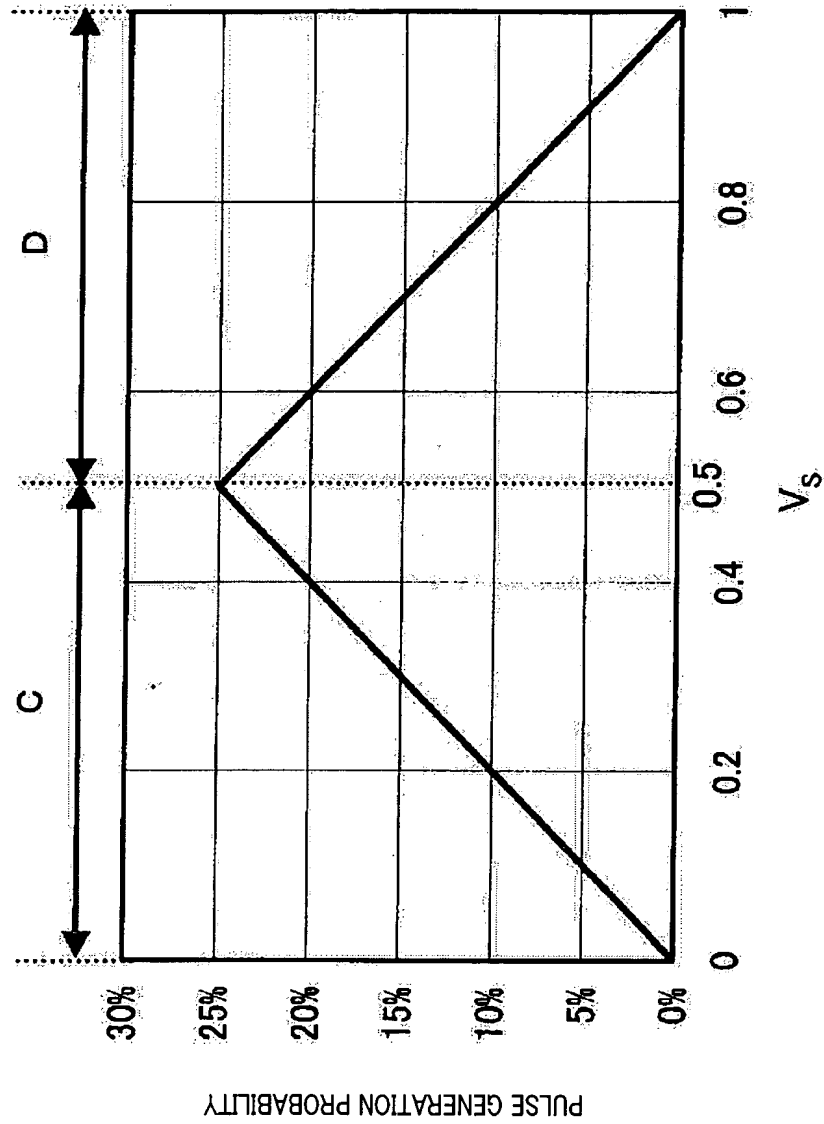


Fig. 24

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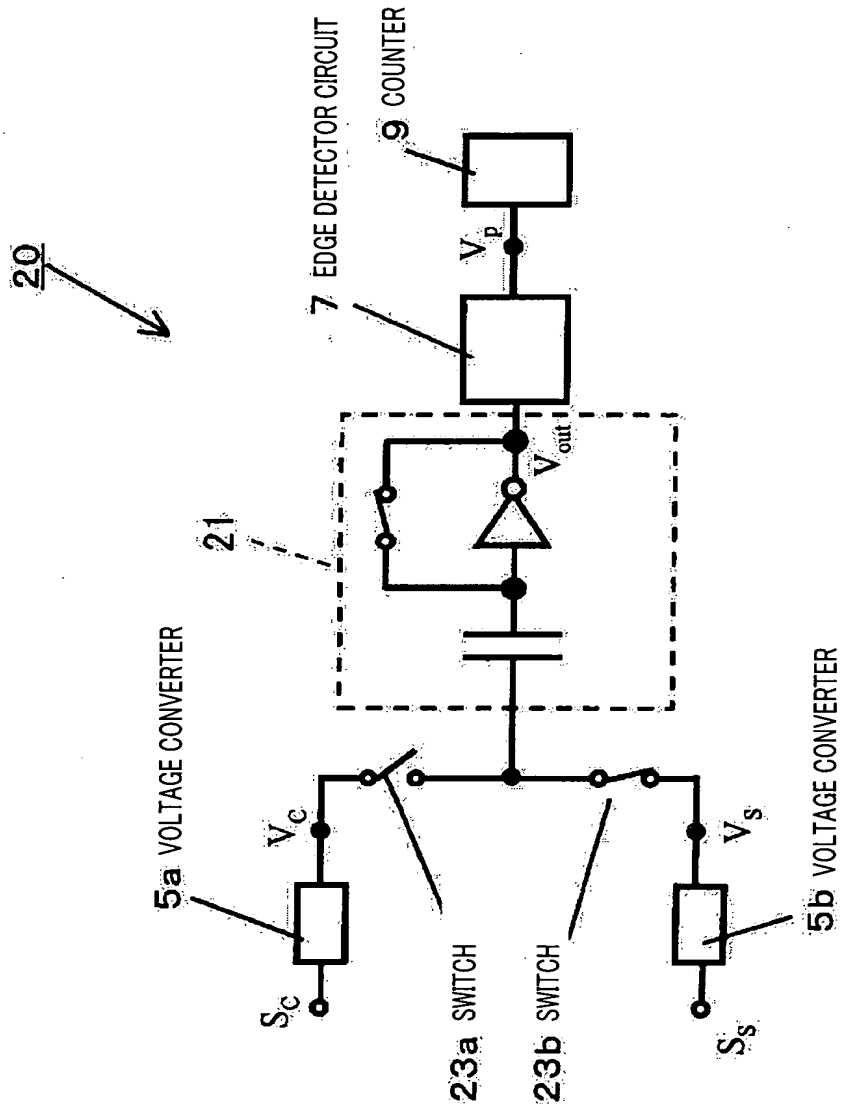
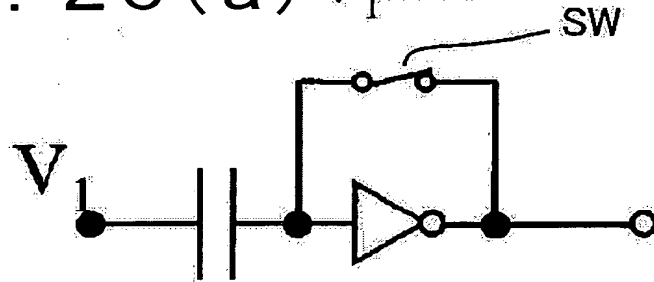
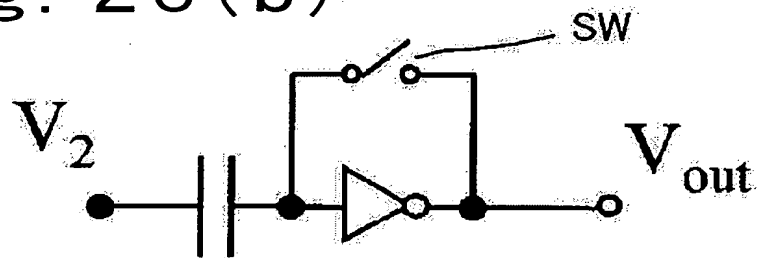


Fig. 25

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Fig. 26 (a) V_1 STORAGE**Fig. 26 (b)** COMPARISON

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Fig. 27(a)

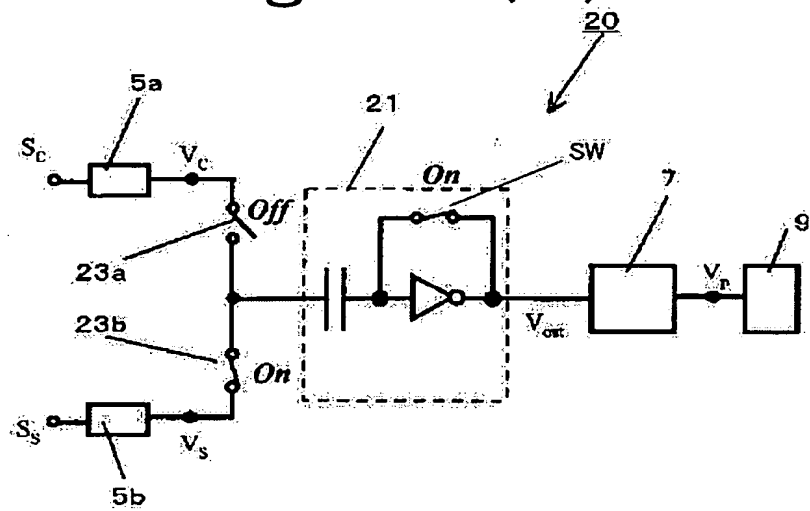
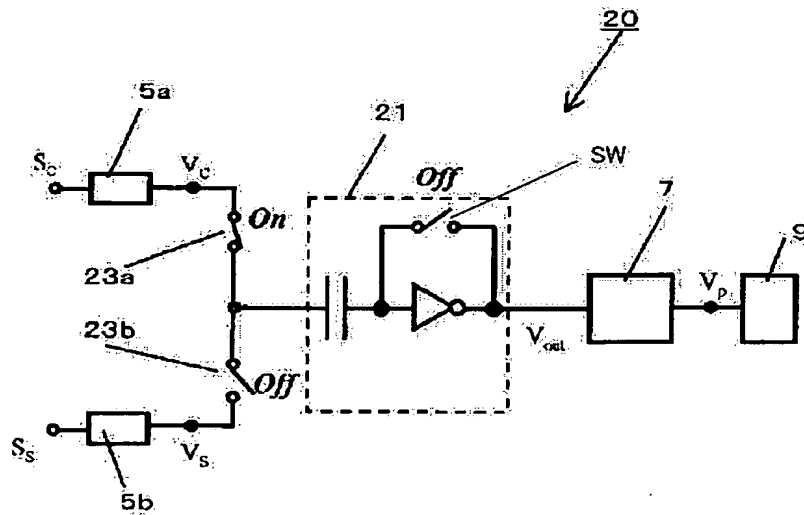


Fig. 27(b)



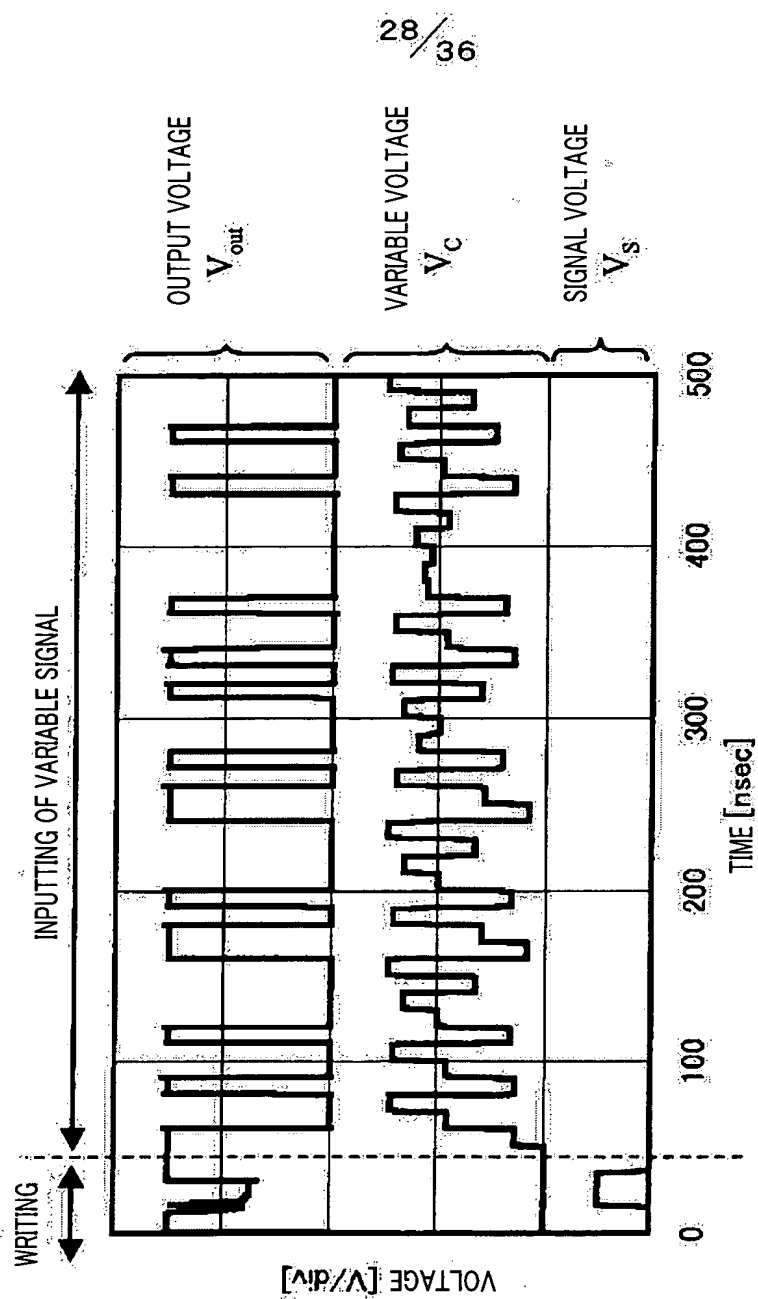


Fig. 28

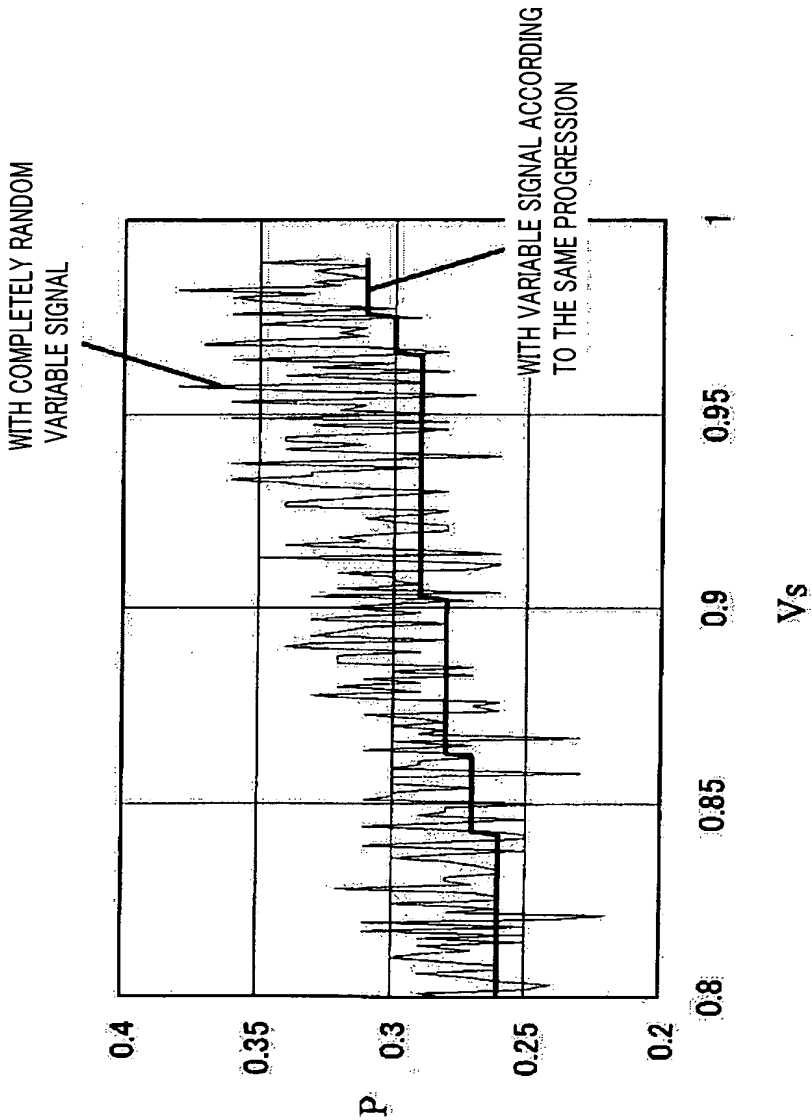


Fig. 29

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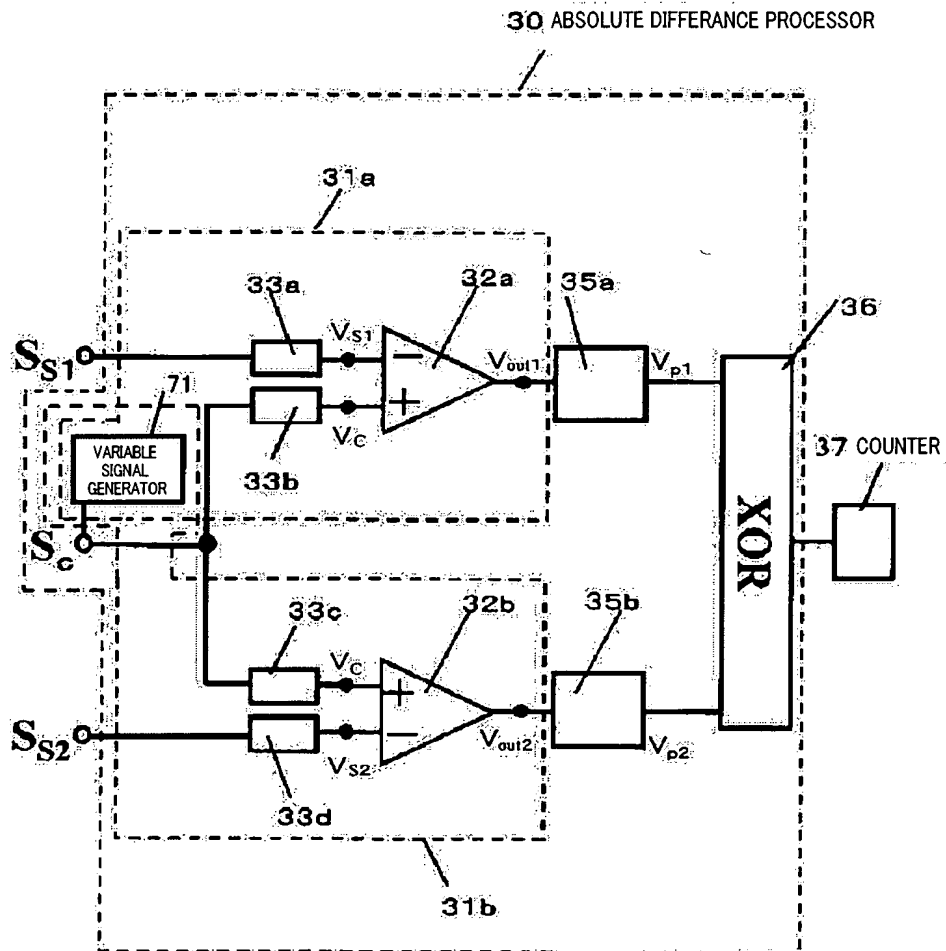


Fig. 30

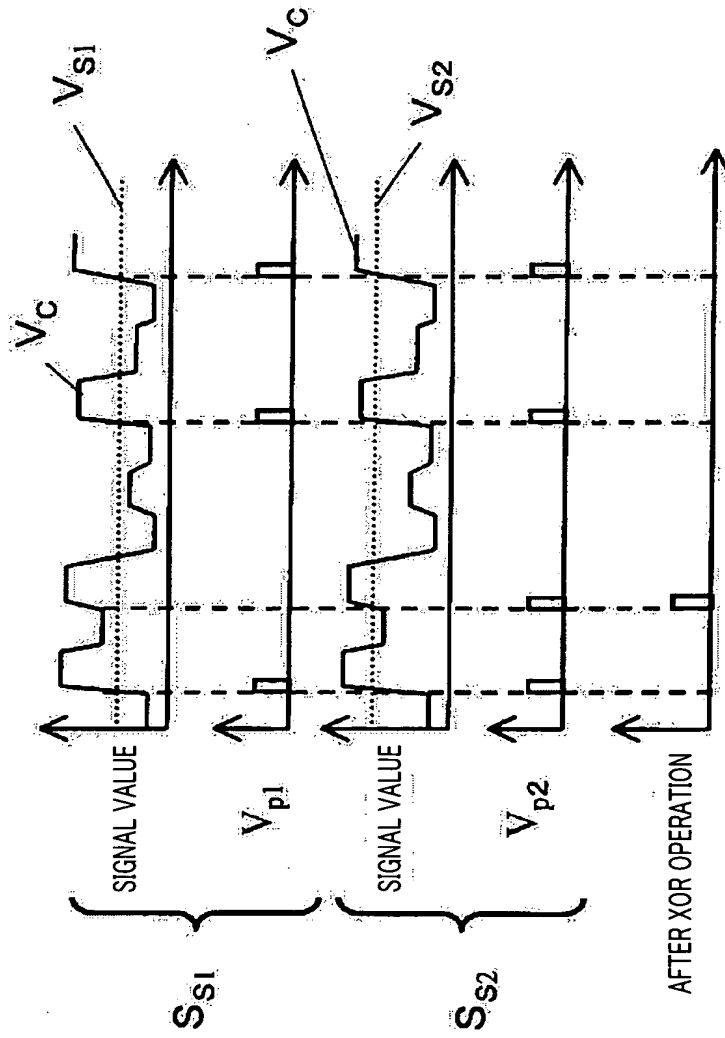


Fig. 31

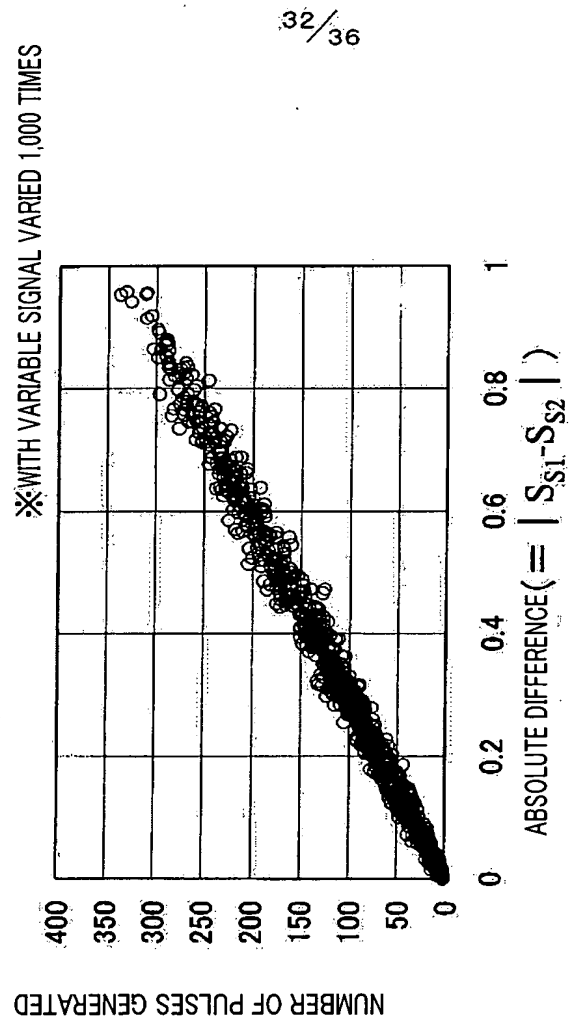


Fig. 32

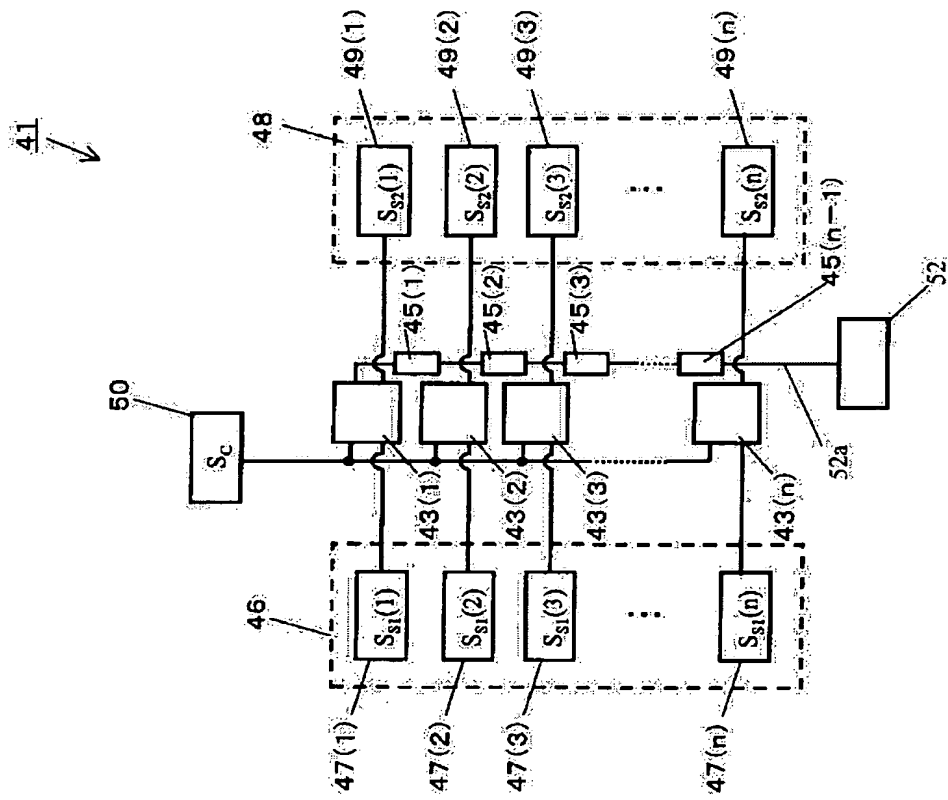


Fig. 33

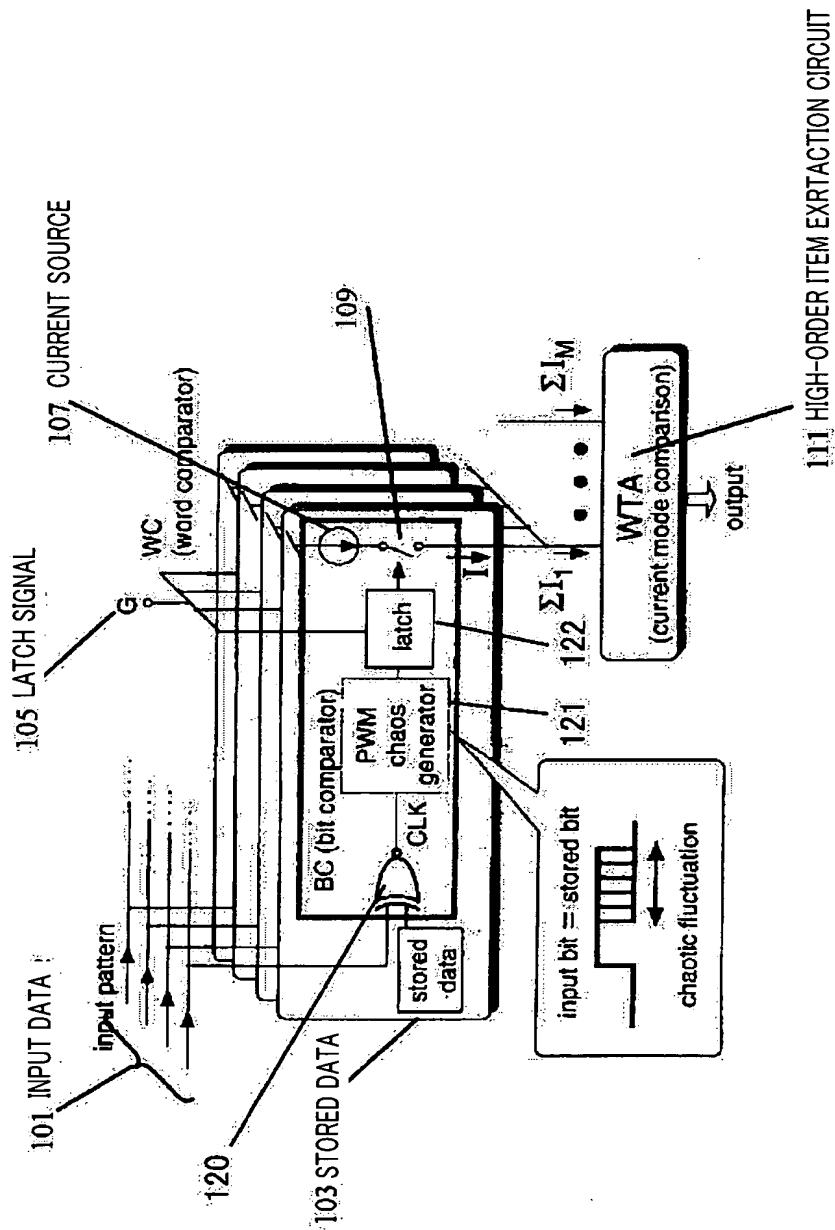


Fig. 34

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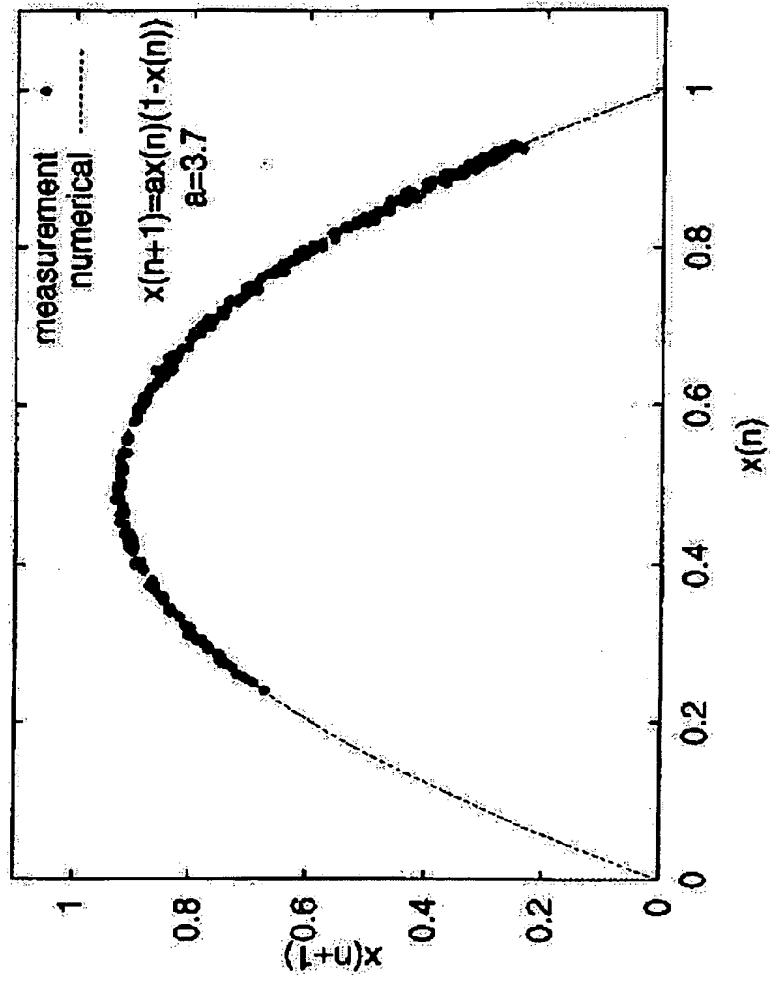


Fig. 35

LIST OF REFERENCE CHARACTERS

1 stochastic pulse generator
3 comparator
5a,5b voltage converter
7 edge detector circuit
9,52 counter
11 delay circuit
13 AND circuit
20 stochastic pulse generator
21 comparator
23a,23b switch
30 absolute difference processor
31a,31b stochastic pulse generator
32a,32b comparator
33a-33d voltage converter
35a,35b edge detector circuit
36 XOR (exclusive-OR) circuit
37 counter
41 Manhattan distance processing apparatus
43(1)-43(n) absolute difference processor
45(1)-45(n-1) delay circuit
46 vector
47(1)-47(n) signal corresponding to element
48 vector
49(1)-49(n) signal corresponding to element
50,71 variable signal generator
51 stochastic pulse generator
52a wiring
53 low-pass filter
55 signal analyzer
61 control random signal generator
201 processor
202 delay circuit
S_C variable signal
S_S input signal
SW switch
V_C control random signal, variable signal
V_S detected signal, input voltage
V_P pulse
V_{out} output of comparator

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